

Funded by the State Water Resources Control Board and CalFed Bay-Delta Program

Presentation Outline

✓ Program Background

✓ Goal

✓ Objectives



Partnerships

✓ Our Advice...

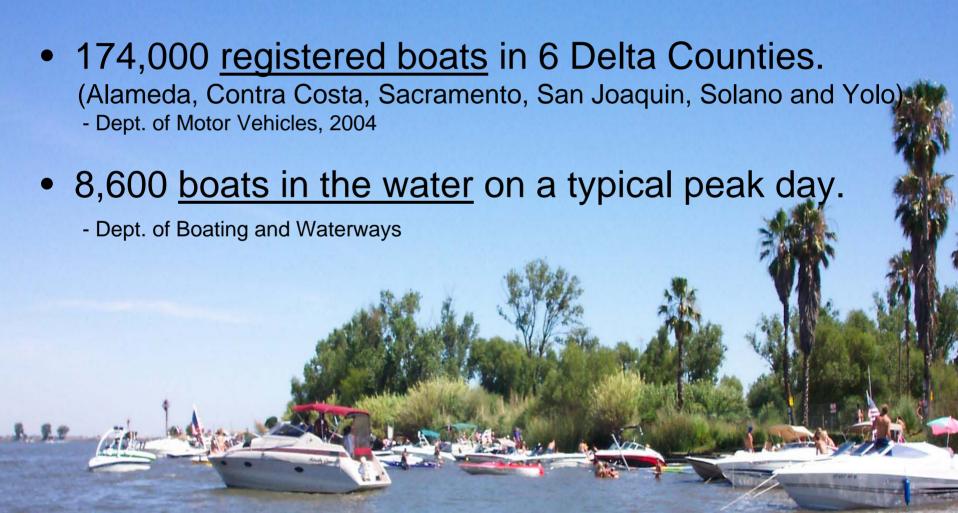


The Delta, A Precious Resource

- Critical Habitat: fish, wildlife, native & migratory birds
- Irrigation Water: 7 million acres of agricultural land
- <u>Drinking Water</u>: 450,000 County residents & over
 22 million Californians
- Recreation: boating, fishing, bird watching, hunting, swimming, kayaking, windsurfing

Recreational Boating

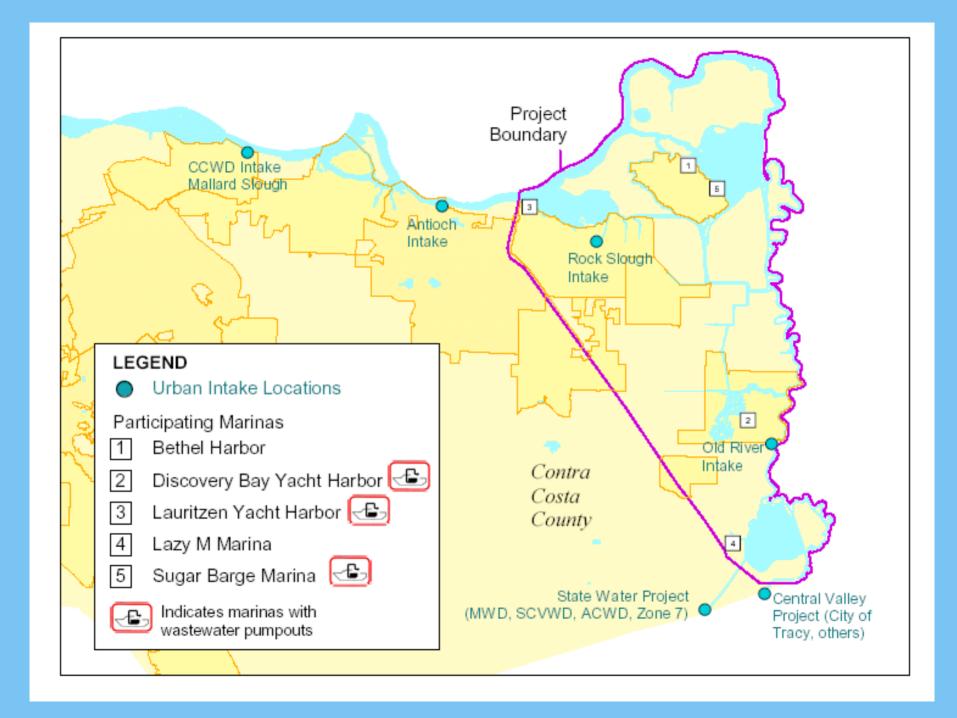
57 marinas in Contra Costa County &
 ~150 throughout the Delta.



Delta Marina Partners



- Bethel Harbor
- Discovery Bay Yacht Harbor
- Lauritzen Yacht Harbor
- Lazy M Marina
- Sugar Barge Marina



Other Partners

California Coastal Commission

- Coast Guard Auxiliary
- Contra Costa Water District
- Department of Boating and Waterways



- Northern California Clean Boating Network
- Northern California Marina Association



Program Goal

Partner with the boating community to prevent and reduce potential NPS pollution that may be associated with recreational boating and marina operations.

Potential NPS Pollutants Targeted:

- Pathogens: overboard sewage disposal, lack of restroom facilities, & pet waste
- Petroleum hydrocarbons: contaminated bilge water, illegally disposed motor fluids, & improper fueling at docks
- Other potentially harmful wastes: engine & hull maintenance products & solvents, marine batteries, litter, & fish cleaning waste



Program Objective

 Identify and install convenient and publicly accessible marina-based environmental services.

Partnerships:

- 5 Marina Partners
- California Integrated Waste Management Board
- California Coastal Commission
- City of Sacramento, Department of Utilities
- County Hazardous Materials Division
- County Maintenance Division
- County Real Property
- Department of Boating & Waterways
- Department of Toxics Substances Control
- Napa & San Joaquin Counties
- Northern California Marina Association

Marina Used Oil Recycling Centers



- Used Oil Absorbents
- Empty Used Oil Bottles
- Marine & Auto Batteries

Recycle all other hazardous materials at a Household Hazardous Waste Collection Center. For locations call 1-800-CLEANUP, www.earth911.org

Nearest Contra Costa County Collection Center: 2500 Pittsburg-Antioch Hwy. (925) 756-1900

If Shed is Locked, See Marina Attendant



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Empty Oil Bottle Recycling



Oil Absorbent Exchange Program



USED 0 ABSORBENTS NO TRASH! OIL ABSORBENT

EXCHANGE PROGRA

Boaters, Pick Up Your Free Oil Absorbents

LET'S KEEP THE DELTA CLEAN

by using an Oil Absorbent in the bilge to capture leaks and drips from your boat engine.



- 1. Take Only What You Need
- 2. Drop Used Oil Absorbents into the Red "Absorbent Only" Recycling Can or Ask the Marina Attendant
- 3. See Absorbent Pillow Cover for Other Marinas Participating in the Oil Absorbent Exchange Program

Call 1-800-CLEANUP (www.earth911.org) for Other **Oil Absorbent Distribution and Disposal Locations**



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Program Objective

2. Educate recreational boaters about clean and safe boating while promoting new environmental services.

Partnerships:

- 5 Marina Partners & Other Delta Marinas
- California Coastal Commission
- Coast Guard Auxiliary
- Department of Boating & Waterways
- Department of Fish and Game
- Delta Protection Commission
- Volunteer Dockwalkers
- Northern California Marina Association
- Regional Water Quality Control Board
- San Joaquin County
- West Marine

Educating One Boater at a Time





10,000 Free Boater Kits for 2005 & 2006

- Educational literature & boating resources: Clean Boating Habits, ABC's of CA Boating Law, Threats to the West, tide book, West Marine coupon
- Promotional items with campaign slogan: visor, floating key chain, drink cozy, safety flag
- Oil Absorbent Pillow
- Delta Map for Recreational Boating: Promoting marinas, environmental services, oil collection centers





Program Objective

3. Partner with local harbor masters to explore useful and practical pollution prevention systems.

Partnerships:

- 5 Marina Partners
- Boy Scouts of America
- California Coastal Commission
- City of Sacramento, Department of Utilities
- Contra Costa County Hazardous Materials Division
- Department of Boating & Waterways
- Northern California Marina Association
- Regional Water Quality Control Board

Fish Cleaning Stations



Before After

Leak-proof Dock Boxes & Inserts



Hazardous wastes are toxic to human health and aquatic life.

Store and dispose of properly.

Call 1-800-CLEANUP or visit <u>www.earth911.org</u> for disposal locations and clean boating tips.



This leak-proof dock box was funded by a grant from the State Water Resources Control Board and the California Bay-Delta Authority



Pet Waste Disposal Stations



Pet waste can degrade water quality when washed into the Delta during rain events.

Take a Pet Waste Bag

Tie Bag and Place in Trash

Please Keep Your Pets on a Leash.



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Educational Signage & Kiosks





Marina Operator Technical Assistance

- Stormwater Pollution Prevention Plan
- Spill Response Plan and Staff Training
- Marina Environmental Policy
- Boat Maintenance Contractor Policy





Program Objective

4. Create a local forum for collaboration to sustain and improve boater education in the Delta.

Partnerships:

- 5 Marina Partners
- California Coastal Commission
- City of Sacramento, Department of Utilities
- Delta Keeper
- Department of Boating & Waterways
- Department of Fish and Game
- Department of Health Services (EHIB)
- Green Flame Services
- Northern California Marina Association
- Recreational Boaters of California
- San Francisco Estuary Project
- San Joaquin County
- Santa Monica Bay Restoration Foundation
- State Lands Commission

California Clean Boating Network

4 Chapters

- ✓ Northern Ca.
- ✓ Central Coast
- ✓ Southern Coast

NEW Sacramento -San Joaquin Delta





Program Objective

Attempt to measure pollution prevention and reduction.

Partnerships:

- 5 Marina Partners
- Bay Keepers
- California Coastal Commission
- Contra Costa County Marine Patrol
- Contra Costa County Water District
- Delta Keeper
- Department of Boating & Waterways
- City of Sacramento, Department of Utilities
- Northern California Marina Association



Measuring Pollution Prevention

- Initial Water Quality Monitoring Program was inconclusive.
- Attempt to build model to estimate NPS pollution reductions:
 - Input data (historical water quality, recreational usage, demographics, other field data)
 - Pollution prevention services & education (level of implementation, usage, and effectiveness)
 - Ground truthing (physical observations, surveys, aerial photos)
 - Existing literature and models (e.g. lab and field-measured vitalization rates and hydrodynamic models).

Recreational Boater Survey

Understand boaters' maintenance practices

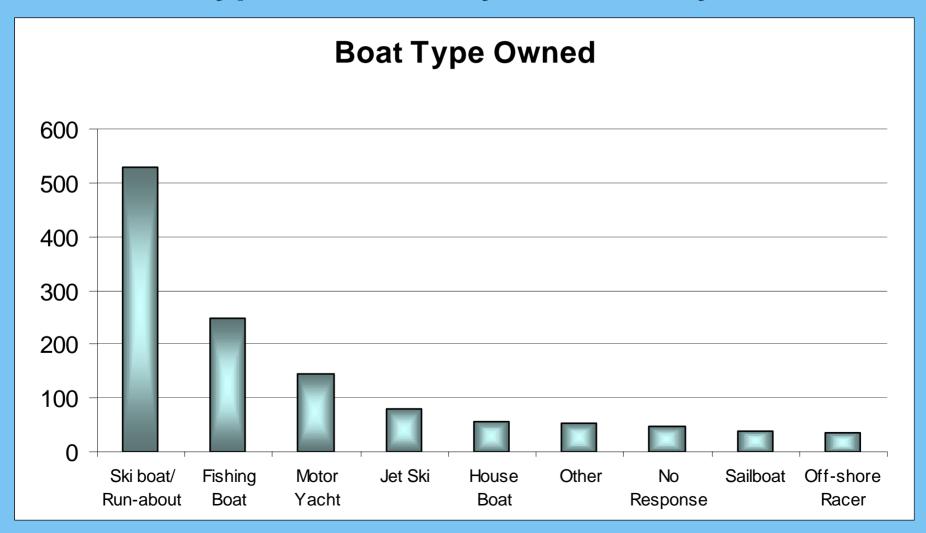
Boater perception of water quality impacts

- Identify gaps in marina-based environmental services
- Improve future education efforts

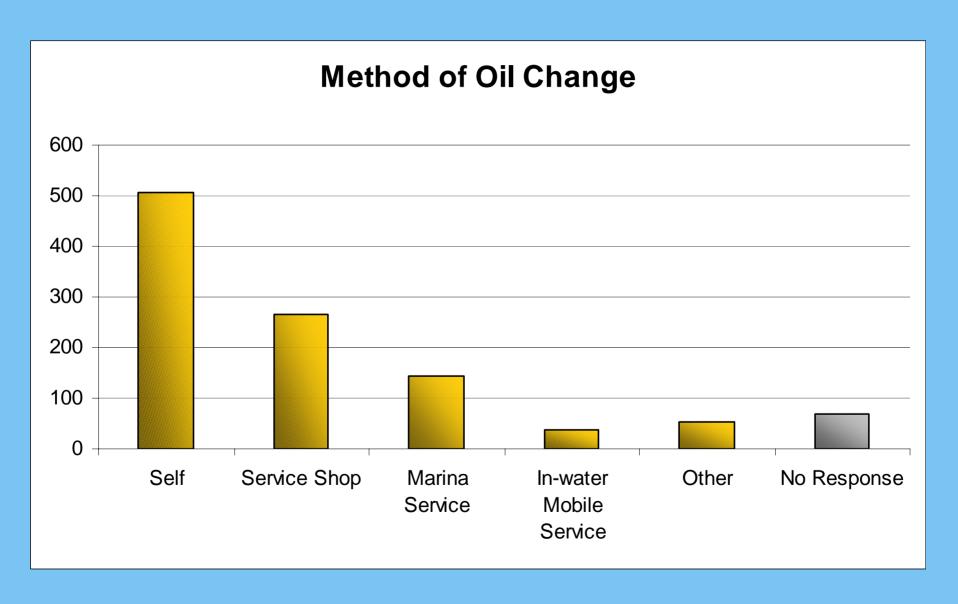


Preliminary Survey Results from ~ 1,000 surveys

What type of boat do you currently own?



Who usually changes the motor oil in your boat?

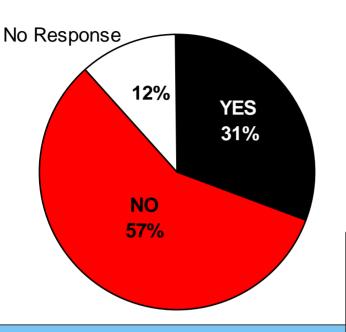


How do you clean oil that has spilled into the bottom of your boat or bilge?





Sewage Pumpout Logo Comprehension

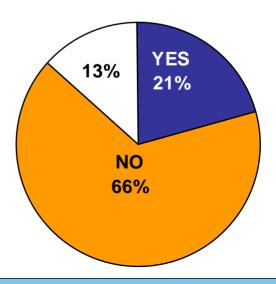


Do you know what this logo stands for?

If yes, what is the meaning?



Used Oil Recycling Logo Comprehension



Our Advice...



- 1. Be prepared for delays in the state contracting process.
- 2. Quarterly reports are fun, keep up.
 - 3. Build enough \$ into the budget for adequate staff support.
 - If you don't have a crystal ball have contingencies ready (schedule & resources)



Proven Successes...

- Approach ALL stakeholders early in the planning process. Seek out the experts in that industry.
- 2. Ensure you approach local community and private industry stakeholders with a non-regulatory mentality.
- 3. Design program with sustainability in mind.
- 4. Maintain close communication with partners and granting agencies.
- 5. Talk the Talk and Walk the Walk.

Keep the Delta Clean.

Tonya Redfield
Contra Costa County
Public Works
255 Glacier Drive
Martinez, CA 94552
925/313-2313
tredf@pw.cccounty.us

You Play In It.
You Drink It Too!